



Smart TV[®]
Alliance

Technical Specification

Version 2.0 errata 4
(including errata 1, 2 and 3)

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1. Change history

Version	Date	Changes
2.0.1 errata 1	2013-05-03	Final version for release
2.0.1 errata 2	2014-01-08	Final version for release
2.0.1 errata 3	2014-08-04	Final version for release
2.0.1 errata 4	2016-03-17	Final version for release

2. Introduction

2.1. Overview

This document specifies errata to the Smart TV Alliance version 2.0 specification. It is intended to be read in conjunction with that document.

2.2. References

[6] REC-DOM-Level-2-20001113 Document Object Model (DOM) Level 2 Events Specification, Version 1.0, <http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113>

[16] HTML5 Working Draft 29 March 2012
<http://www.w3.org/TR/2012/WD-html5-20120329/>

[23] W3C - CSS3 - Basic User Interface Module Level 3 - January 2012
<http://www.w3.org/TR/2012/WD-css3-ui-20120117/>

[24] W3C - CSS3 - Backgrounds and Borders Module Level 3 - April 2012
<http://www.w3.org/TR/2012/CR-css3-background-20120417/>

[40] CSS3 Images
<http://www.w3.org/TR/2012/CR-css3-images-20120417/>

[41] CSS3 Multi-column Layout Module
<http://www.w3.org/TR/2011/CR-css3-multicol-20110412/>

[43] CSS Text Level 3
<http://www.w3.org/TR/2012/WD-css3-text-20120119/>

[44] CSS Transitions
<http://www.w3.org/TR/2012/WD-css3-transitions-20120403/>

[A] RFC4346 The Transport Layer Security (TLS) Protocol Version 1.1
<https://tools.ietf.org/html/rfc4346>

2.3. Trademarks and copyrights

All trademarks and copyrights are the property of their respective owners.

3. Errata

3.1. Status Definition

This document specifies technical features of the platform, using the terms defined in the table below. Items not listed are not supported by this version of the specification. Individual products may support extra features, but applications shall not use such features when targeting the Alliance platform.

Status	Definition	Remarks
M	Mandatory, Fully Supported. All devices SHALL support this feature in order to comply with this specification.	M(CSS2) indicates mandatory support at CSS2 level
C-M	Conditionally Mandatory. Implementation of this feature is optional, but devices that do implement this feature SHALL comply with this specification.	
P	Partially Supported.	
O	Optional. Details are defined and devices MAY support this feature.	
Removed	Removed from specification. Included in v2.0 specification but removed by this errata.	Items are shown with strikethrough .

3.2. Changes to v2.0 specification

The following text and tables replace the corresponding parts of the version 2.0 specification. All other features are unchanged.

Section 2.3 References

[45] CSSOM View Module
<http://dvcs.w3.org/hg/csswg/raw-file/tip/cssom-view/Overview.html>

Section 3.3.1 HTML5 profile

Standard	Reference	Status	Remark
SSL / TLS		Removed	HbbTV server certificates shall be supported.
TLS	[A]	M	HbbTV server certificates shall be supported. Replaces the requirement above.

The remainder of the section is unchanged.

Section 3.3.1.1. XMLHttpRequest

Section	Reference	Description	Support
Request	[22] section 4.6	open(), setRequestHeader(), withCredentials, send(), abort()	M

The remainder of the section is unchanged.

Section 3.3.1.2 CSS3 UI

Section	Reference	Description	Support
Box Model addition			
	[23] section 6.1	box-sizing	P
Resizing and overflow			
	[23] section 8.2	text-overflow	P

The remainder of the section is unchanged.

Section 3.3.1.3 CSS3 BG

Section	Reference	Description	Support
Backgrounds			
	[24] section 3.6	background-position	P
miscellaneous effects			
	[24] section 7.1	box-decoration-break	Removed
	[24] section 7.2	box-shadow	M*

The remainder of the section is unchanged.

Section 3.3.1.6 CSS3 Animations

This section is replaced by the text below.

Section	Reference	Description	Support
Keyframes			
	[37] section 3.1	@keyframes	M*
	[37] section 3.2	animation-name	M*
	[37] section 3.3	animation-duration	M*
	[37] section 3.4	animation-timing-function	M*
	[37] section 3.5	animation-iteration-count	M*
	[37] section 3.6	animation-direction	M*
	[37] section 3.7	animation-play-state	M*
	[37] section 3.8	animation-delay	M*
	[37] section 3.9	animation-fill-mode	M*
	[37] section 3.10	animation	M*

M*: Mandatory via browser extension, details to be included in developer guidelines.

Section 3.3.1.9 CSS3 Image Values and Replaced Content

Section	Reference	Description	Support
CSS3 Image Values and Replaced Content			
	[40]	CSS3 Image Values and Replaced Content full support	P

The remainder of the section is unchanged.

Section 3.3.1.10 CSS3 Multi-column Layout

This section is replaced by the text below.

Section	Reference	Description	Support
The number and width of columns			
	[41] section 3.1	column-width	M*
	[41] section 3.2	column-count	M*
	[41] section 3.3	Columns	P*
Column gaps and rules			
	[41] section 4.1	column-gap	M*
	[41] section 4.2	column-rule-color	M*
	[41] section 4.3	column-rule-style	M*
	[41] section 4.4	column-rule-width	M*
	[41] section 4.5	column-rule	M*
Spanning columns			
	[41] section 6.1	column-span	M*
Column breaks			
	[41] section 5.1	break-before	Removed
	[41] section 5.1	break-after	Removed
	[41] section 5.1	break-inside	Removed
Filling columns			
	[41] section 7.1	column-fill	Removed

M*: Mandatory via browser extension, details to be included in developer guidelines.

P*: Partially supported via browser extension, details to be included in developer guidelines.

3.3.1.13 CSS3 Text

Section	Reference	Description	Support
Spacing	-		
	[43] section 8	word-spacing	Removed
	[43] section 8.2	letter-spacing	Removed
Edge Effects			
	[43] section 9.1	text-indent	Removed

The remainder of the section is unchanged.

3.3.1.14 CSS3 Transitions

Section	Reference	Description	Support
Properties from CSS			
	[44] section 7.1	vertical-align	P

M*: Mandatory via browser extension, details to be included in developer guidelines.

The remainder of the section is unchanged.

3.3.1.23. HTML5 Forms

Section	Reference	Description	Support
The fieldset element	[16] Section 4.10.4		P
	[16] Section 4.10.4	name	Removed
	[16] Section 4.10.4	type	Removed
	[16] Section 4.10.4	elements	Removed

The remainder of the section is unchanged.

3.3.3 Input/key support

The text above the table is changed to:

The platform supports DOM level 2 KeyEvents ([6]) and supports the following global VK_-key constants corresponding to key codes.

(for some manufacturers, key constants are implemented in a Javascript library):

The remainder of the section is unchanged.

3.4.2. Streaming Protocols

The following text is added.

For audio only content, receivers are only required to support progressive download.

The remainder of the section is unchanged.

Section 3.4.4.1 Video Codecs

Support for Baseline Profile is **removed**.

Support for Constrained Baseline Profile at Level 3 is added as **mandatory**.

The remainder of the section is unchanged.